User's Manual

USB 2.0 Docking Station Series

Introduction

Thank you for purchasing this device. With different options, the product features a desired variety and function to fulfill your needs when you work with your laptop or desktop PC. Its convenience, effectiveness, efficiency, and economics will make you satisfied in diverse working requirements.

Docking station series are basically equipped with following ports as a main unit:

- one USB 2.0 upstream port for connecting up to your PC or notebook
- multiple (average 4-port) USB 2.0 down-stream ports for devices
- one high-speed RS-232 Serial port
- one printer port supports IEEE-1284 bi-directional printer
- one pair of PS2 keyboard/mouse port

Features

- Fully Compliant with USB specification 1.1 and 2.0
- Supports one high-speed RS-232 Serial port
- Hot plug and play; supports bus powered
- Supports ±15kV HBM ESD protection
- Supports Windows OS & Mac OS (Exception: Parallel port is not applicable to Mac OS.)

The following options are additionally equipped to different models to fulfill your special needs:

- one USB 2.0 Ethernet (MD-3000)
- one USB 2.0 Ethernet + IrDA (MD-6000)
- 5-port USB 2.0 hub + one USB 2.0 Ethernet (MD-M20)
- one USB 2.0 Ethernet + one Audio (MD-M20A)
- 3-port USB 2.0 hub + one USB 2.0 7-in-1 card reader (MD-M20CR)

System Requirements

- A PC with a minimum of a 75MHz Pentium or equivalent
- A minimum of 16M bytes of RAM
- One available USB Type A downstream port (either UHCI or OHCI)
- Windows 98SE or later.

Package Contents

The product contains the following enclosures:

- One USB Type A to B cable
- CD of drivers and installation manuals
- Switching adaptor

Bus Power

Just simply use the USB cable to connect the device and your PC, the docking station will start functional.

Power Indicator

The power indicator will turn **ON** when bus power is supplied.

Installation of Respective Drivers

1. The installation guides are written according to Windows 98/SE.
2. Power on your computer and make sure that the USB port is enabled and working properly.
3. By using the USB cable to connect the docking station and your PC.
4. Windows will detect the devices in following order:

   USB hub
   Ethernet port
   Parallel port
   IrDA
   Serial port
   Key/Mouse

Driver Installation

From the CD enclosed, you may find the appropriate drivers and installation manuals for each device. Please click the right one and follow the instructions to complete the installation procedures.

The driver installation is divided into 3 steps. Please follow the steps from A to C.

Step A: (This step for Windows 98 only)

To install the HUB function of the MINI USB DOCK:

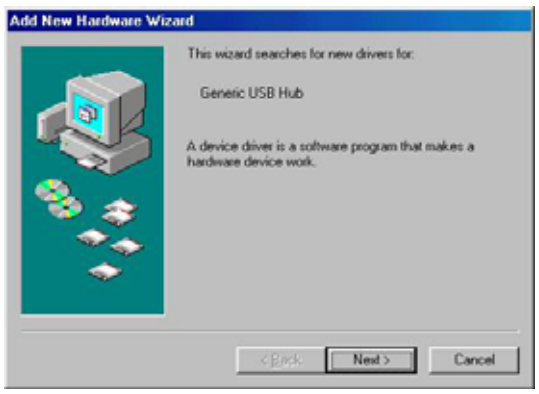

Add New Hardware Wizard
This wizard searches for new drivers for:
Generic USB Hub
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Figure A-1

A1. Click “Next” to Continue (Ref Figure A-1)

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Figure A-2

A2. Click “Next” to initiate a search for the best driver for your device (Ref Figure A-2)

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\Win98
Browse...
< Back
Next >
Cancel

Figure A-3

A3. Please insert the “Windows 98” CD into CD-ROM. Click “Next” to continue (Ref Figure A-3)

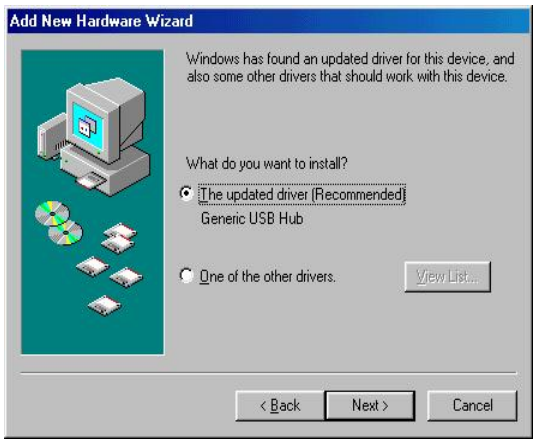

Add New Hardware Wizard
Windows has found an updated driver for this device, and also some other drivers that should work with this device.
What do you want to install?
The updated driver (Recommended)
Generic USB Hub
One of the other drivers.
View List...
< Back
Next >
Cancel

Figure A-4

A4. Click “Next” to continue
(Ref Figure A-4)

Add New Hardware Wizard
Windows driver file search for the device:
Generic USB Hub
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\USB.INF
< Back
Next >
Cancel

Figure A-5

A5. Click “Next” to continue
(Ref Figure A-5)

Figure A-6

A6. Click “Finish”, Windows has finished installing USB Hub driver
(Ref Figure A-6)

Step B: (This section for Windows98/98SE/Me only)

To install the software for USB to Printer Converter of the MINI USB DOCK:

Add New Hardware Wizard
This wizard searches for new drivers for:
IEEE-1284 Controller
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Figure B-1

B1. Insert the “MINI USB DOCK driver diskette” into drive A.
Click “Next” to continue
(Ref Figure B-1)

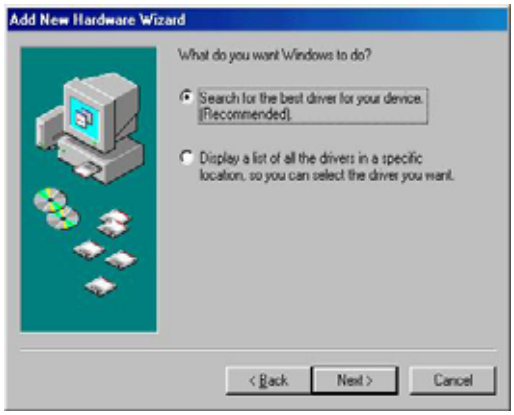

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Figure B-2

B2. Click “Next” to initiate the search for the best driver for your device
(Ref Figure B-2).

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\Win98
Browse...
< Back
Next >
Cancel

Figure B-3

B3. Selected Floppy diskette drives location as "A:\Win98".
Click “Next” to start and search.
(Ref Figure B-3).

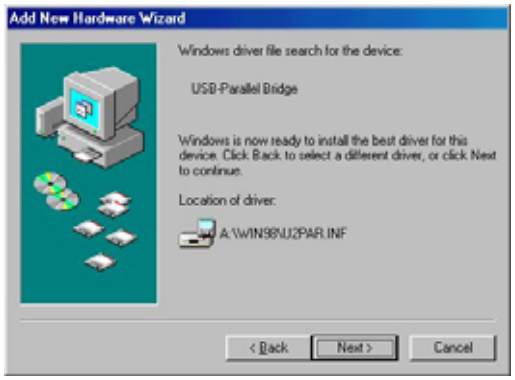

Add New Hardware Wizard
Windows driver file search for the device:
USB-Parallel Bridge
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\WIN98\U2PAR.INF
< Back
Next >
Cancel

Figure B-4

B4. Click “Next” to continue
(Ref Figure B-4)

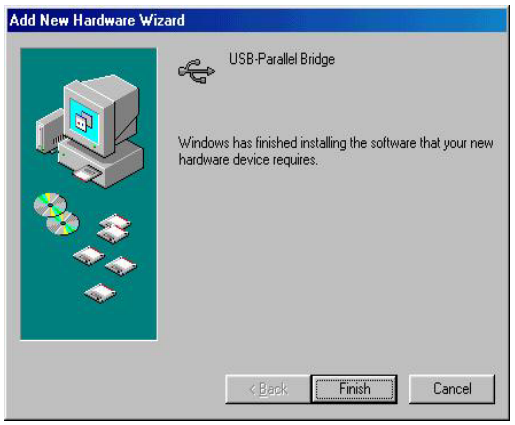


Figure B-5

B5. Click “Finish”, windows has finished installing the printer driver
(Ref Figure B-5)

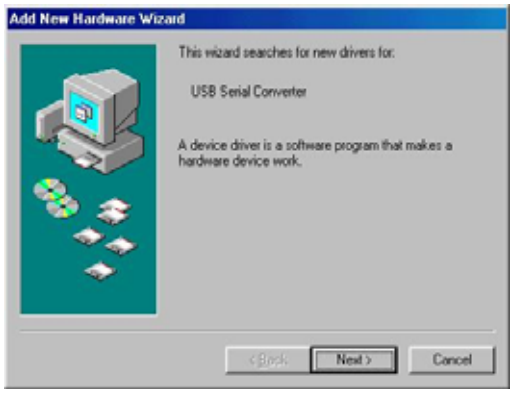
Before connecting the printer on the parallel port of MINI USB DOCK, the printer driver must be installed in advance, or it might print unknow format of character.

Please refer "Setting Up the Printer Device" section to connect your printer to the MINI USB DOCK.

Step C:

To install the USB to serial port driver of the USB DOCK, please make sure the driver diskette is inserted:

Figure D-1


Add New Hardware Wizard
This wizard searches for new drivers for:
USB Serial Converter
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

D1. Click “Next” to continue
(Ref Figure D-1)

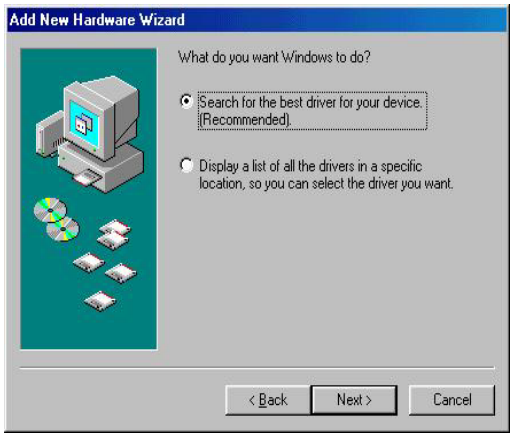

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Figure D-2

D2. Click “Next” to initiate a search for the best drive for your device
(Ref Figure D-2)

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\Win98
Browse...
< Back
Next >
Cancel

Figure D-3

D3. Select Floppy diskette drives location. Click “Next” to start and search for the best driver for your device
(Ref Figure D-3)

Add New Hardware Wizard
Windows driver file search for the device:
USB-to-Serial Converter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\WIN98\FTDICOM.INF
< Back
Next >
Cancel

Figure D-4

D4. Click “Next” to continue
(Ref Figure D-4)

Figure D-5

D5. Click “Finish”, Windows has finished installing RS-232 port driver
(Ref Figure D-5)

Congratulations!! You have finished installing USB DOCK.

Please click on **Start**, **Settings, Control Panel,** double click **System**, and click on **Device Manager**. Double check the Human Interface Devices, and Universal serial bus controller of the dialog box to see if they work properly.

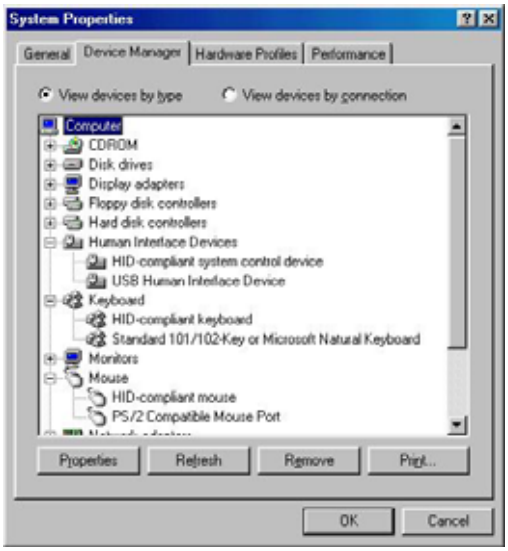


Figure 3

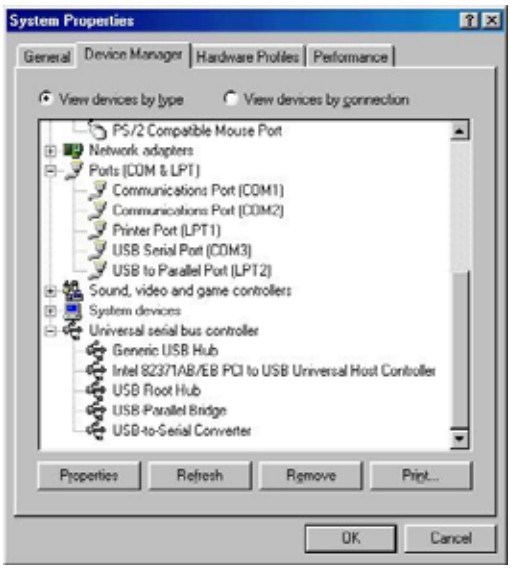


Figure 4

Set Up the Printer Device

Follow the steps below to connect your printer to the MINI USB DOCK with your PC:

For Windows 98/98SE and Me:

1. Turn off your printer. Plug the cable to connect MINI USB DOCK parallel port and printer. Turn on the printer afterwards.

2. Turn on your computer and plug in the USB cable to connect the MINI USB DOCK and the USB port of PC.

3. Please click on **Start**, **Settings**, **Control Panel**, double click **System**, and click on **Device Manager**. Check which printer port is located by USB to parallel port. The following example is located as LPT2.

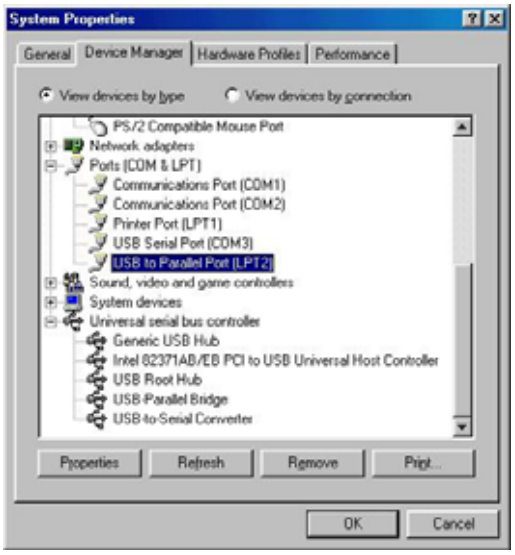


Figure 5

4. If you have installed a printer device before, click **Start**, **Settings**, **Printers**. Right-click the default installed printer and click on **Properties**. The Properties dialog box of the installed printer will appear on your screen.

5. Click the **Details** folder tab and change the printer port to **LPT2: (USB to Parallel Port)**.

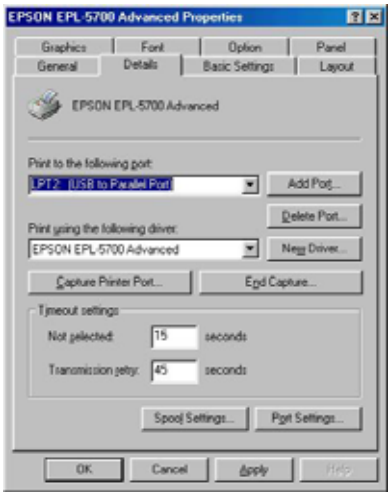


Figure 6

6. If you do not have a printer installed yet, click on **Start**, **Settings**, **Printers**, **Add Printer**. The **Add Printer Wizard** will start and assist you in installing a new printer device. Select the printer manufacturer and model name from the list provided by the wizard or use the printer driver diskette supplied by your printer.

7. When prompted which port the printer will use, click on **LPT2: USB to Parallel Port**.

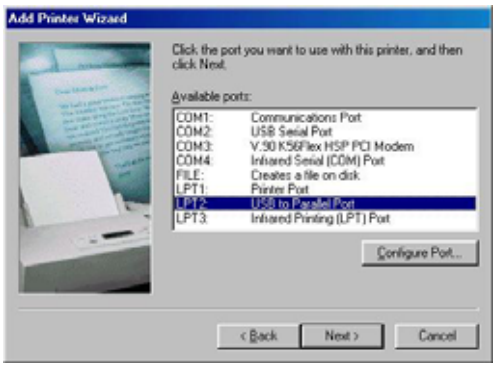

Add Printer Wizard
Click the port you want to use with this printer, and then click Next.
Available ports:
COM1: Communications Port
COM2: USB Serial Port
COM3: V.90 K56Flex HSP PCI Modem
COM4: Infrared Serial (COM) Port
FILE: Creates a file on disk
LPT1: Printer Port
LPT2: USB to Parallel Port
LPT3: Infrared Printing (LPT) Port
Configure Port...
< Back
Next >
Cancel

Figure 7

8. Follow the succeeding instructions to complete the installation and run **Print Test Page** to see if it can print without problems.

For WINDOWS 2000 and XP:

1. Turn off your printer. Plug the cable to connect USB PORT REPLICATOR parallel port and printer. Turn on the printer afterwards.
2. Turn on your computer and plug in the USB cable to connect the USB PORT REPLICATOR and the USB port of PC.
3. If you have installed a printer device before, click **Start**, **Settings**, **Printers**. Right-click the default installed printer and click on **Properties**. The Properties dialog box of the installed printer will appear on your screen.
4. Click the **Ports** tab and change the printer port to **USB001 (Virtual printer port to USB)**.

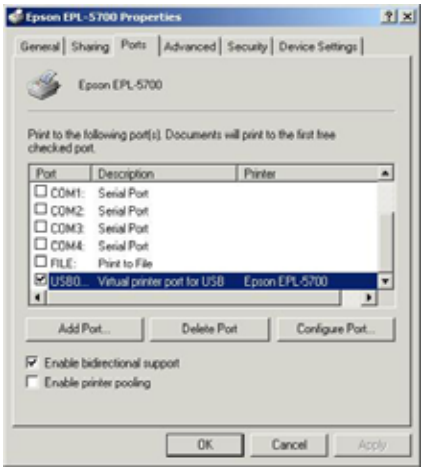


Figure 17

5. If you do not have a printer installed yet, click on **Start**, **Settings**, **Printers**, **Add Printer**. The **Add Printer Wizard** will start and assist you in installing a new printer device. Select the printer manufacturer and model name from the list provided by the wizard or use the printer driver diskette supplied by your printer.
6. When prompted which port the printer will use, click on **USB001 (Virtual printer port to USB)**.

Add Printer Wizard
Select the Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
Port
Description
Printer
COM3: Serial Port
COM4: Serial Port
FILE: Print to File
USB001 Virtual printer port for USB
Note: Most computers use the LPT1: port to communicate with a local printer.
Create a new port:
Type:
Local Port
< Back
Next >
Cancel

Figure 18

Set up the HyperTerminal with USB to serial port

Follow the steps below to configure your HyperTerminal with USB to serial COM port setting:

1. Make sure that HyperTerminal is installed in your system. If not, please click **Start, Settings, Control Panel**, double click **Add/Remove Programs**, choose **Windows Setup** page, **Communications,** click **Details** button, enable **HyperTerminal** to install the program to your Windows system.

2. Please click on **Start, Settings, Control Panel**, double click **System**, and click on **Device Manager**. Check which COM port is located by USB to serial port.

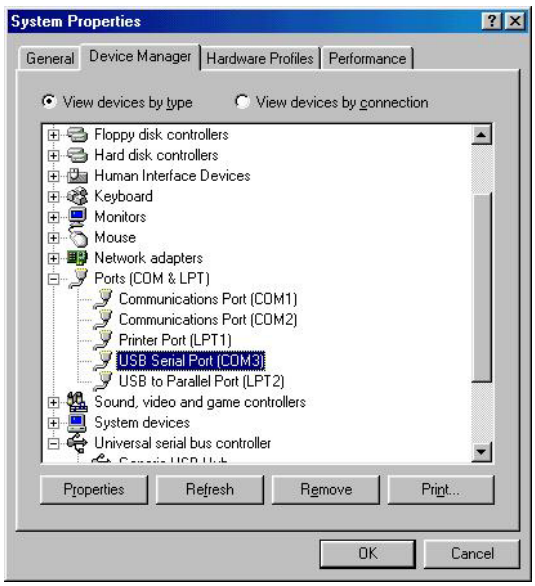


Figure 8

3. If you have setup HyperTerminal before, please run **Start, Programs, Accessories, Communications, HyperTerminal, HyperTrm.exe**. Click **File**, **Properties**. The Properties dialog page will appear on your screen. If you are first time to setup HyperTerminal, you will see this page during the setup procedure.

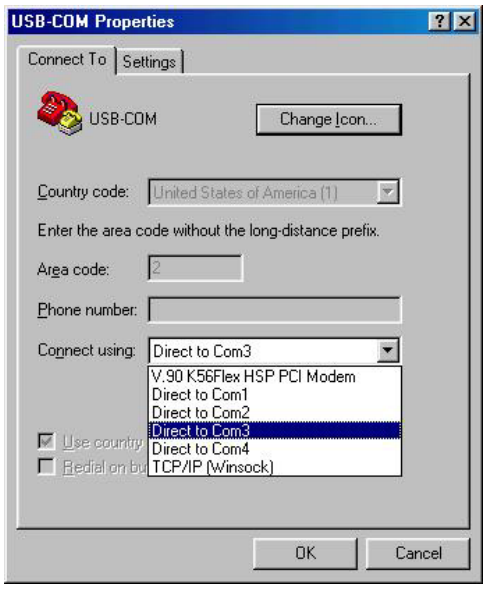


Figure 9

4. Click the "**Connect using**" item to indicate the proper COM port which appeared in step 1, and follow the succeeding instructions to complete the setup.